

Title (en)

PROCESS AND DEVICE FOR THE REDUCTION ANNEALING OF POWDERED IRON.

Title (de)

VERFAHREN UND ANLAGE ZUM REDUKTIONSGLÜHEN VON EISENPULVER.

Title (fr)

PROCEDE ET INSTALLATION DE RECUIT DE FER EN POUDRE PAR REDUCTION.

Publication

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Application

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Priority

- DE 4030054 A 19900920
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Abstract (en)

[origin: WO9205001A1] The invention relates to a process for the continuous reduction and soft-annealing of water-vaporised powdered iron passed through an indirectly heated treatment chamber with a heating, reduction and cooling region in the form of a loose powder. To increase the flow rate while reducing the quantity of power and reducing agent it is proposed that the powder be rotated as it passes through the treatment chamber with continuous mixing at least in the reduction region, at a temperature of 800 to 950 C and that fresh reducing gas is continuously introduced directly into the reduction region to control the dew-point of the furnace atmosphere.

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IPC 8 full level

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